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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/819,864	03/28/2001	David Jones	41982/CAG/B600	4960
23363 7	590 09/21/2004		EXAMINER	
CHRISTIE, PARKER & HALE, LLP			VO, DON NGUYEN	
PO BOX 7068			ART UNIT	PAPER NUMBER
PASADENA,	CA 91109-7068		2631	
			2031	

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/819,864	JONES, DAVID			
		Examiner	Art Unit			
		DON N VO	2631			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status						
1)🛛	N⊠ Responsive to communication(s) filed on <u>28 March 2001</u> .					
2a) <u></u>	This action is FINAL . 2b) 🖂 T	his action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠	<u>, </u>					
Applicat	ion Papers					
9)[The specification is objected to by the Exam	iner.				
10)	The drawing(s) filed on is/are: a) a	accepted or b) objected to by the	e Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🔯 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/r r No(s)/Mail Date <u>03/28/01</u> .	Paper No(s)/Mail 08) 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)			

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DETAILED ACTION

Acknowledgement

1. The Preliminary Amendment filed on 3/28/2001 has been received and placed of record.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 31, 32, 36, 37, 39 and 40 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 18, and 20-24, respectively, of copending Application No. 09/888,242. Although the conflicting claims are not identical, they are not patentably distinct from each other because of their variations in wordings.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 5-7, 31-56, and 59-64 are rejected under 35 U.S.C. 102(e) as being anticipated by Van Nee (6,175,550).

Regarding claims 1, 5-7, 31, 32, 34, 37-41, 44-56, and 59-64, Van Nee teaches QAM communication systems (figure 5) comprising transceivers (72, and 74) including transmitters (10, figure 1) and receivers (30, figure 4) wherein the systems can dynamically scale the operating parameters and/or characteristics such as constellation size, bandwidth (spectral allocation), etc... so that optimum performance can be achieved. See column 2, lines 60-66; column 3, lines 3-21 and lines 59-65; column 4, lines 3-17 and lines 31-43; column 7, line 40 to column 8, line 29; column 9, lines 24-42; and column 10, lines 17-33. Note that, the number of carriers can also be scaled so that the system can also communicate using a single carrier. Column 8, lines 19-24.

Regarding claims 1, 41-43, 48-54, Van Nee does not explicitly teaches controlling the start and stop frequencies of the spectral allocation. However, the system of Van Nee can also vary the bandwidth or spectral allocation. Column 3,

lines 3-34. Therefore, controlling the start and stop frequencies of the spectral allocation as claimed is anticipated.

Regarding claims 33, 35, and 36, Van Nee further teaches scaling the parameters and/or characteristics for the upstream and downstream links.

Column, 8, lines 40-47.

Allowable Subject Matter

6. Claims 8-17, 20-28, 30, 57 and 58 are allowed.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference Ojard (6,327,311) is cited because it is pertinent to QAM single carrier communication system.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N VO whose telephone number is (571) 272-3018. The examiner can normally be reached on TUE FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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